

FIG. 1

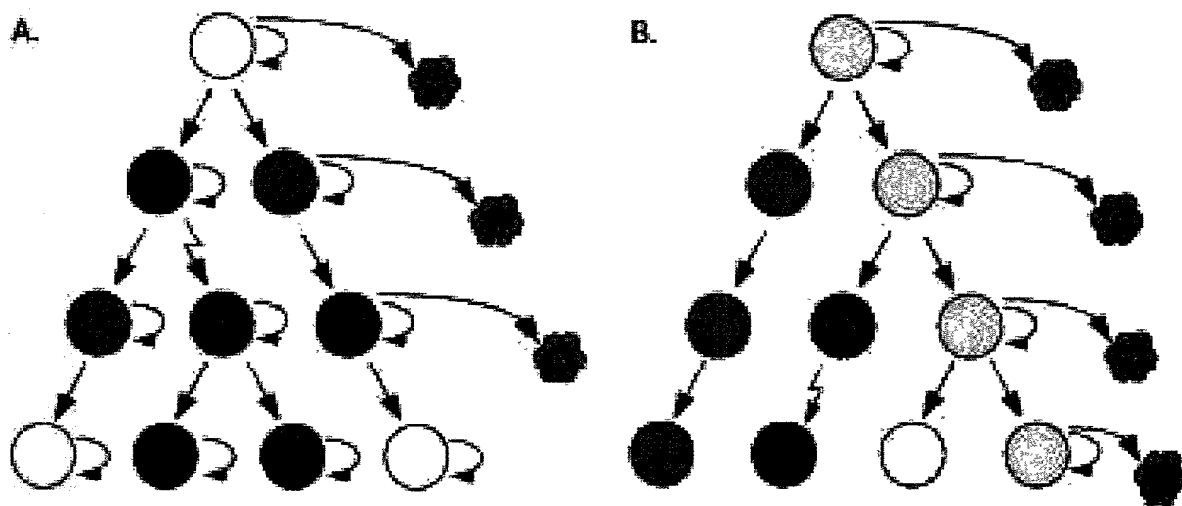
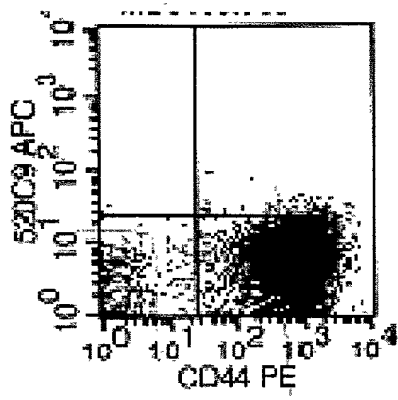
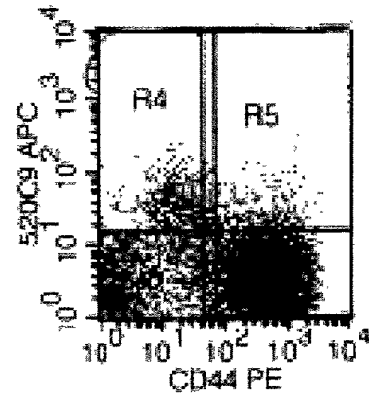


FIG. 1



**Patient (1) - P1**



**Patient (2) - P1**

**FIG. 2**

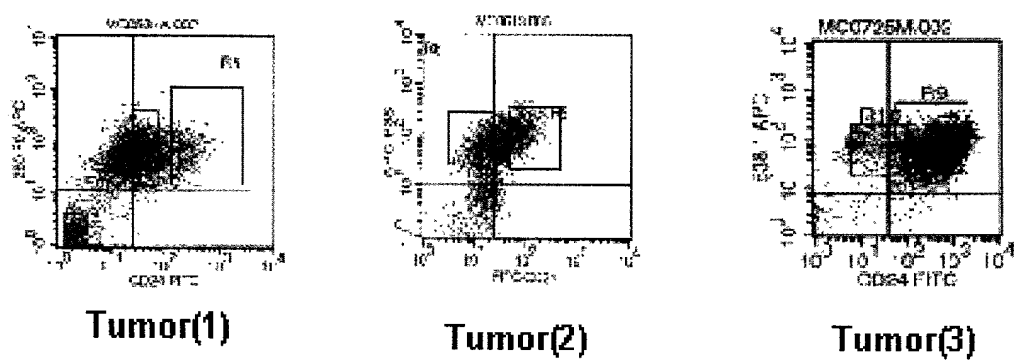


FIG. 3

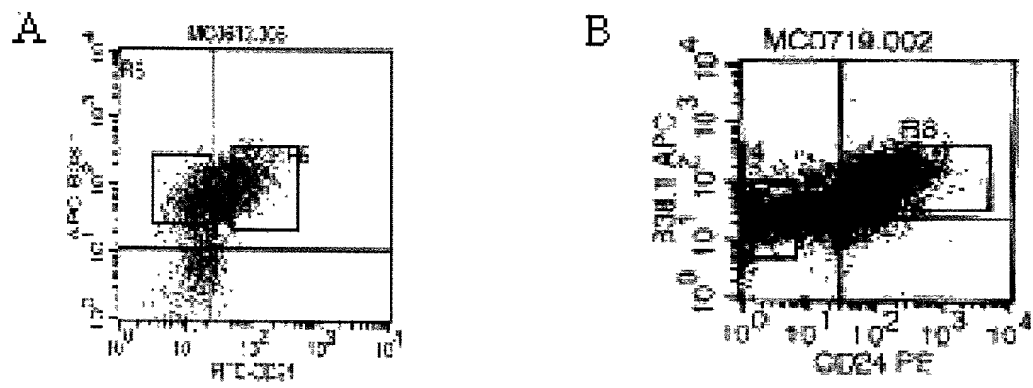


FIG. 4

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## Patient(1)-P2

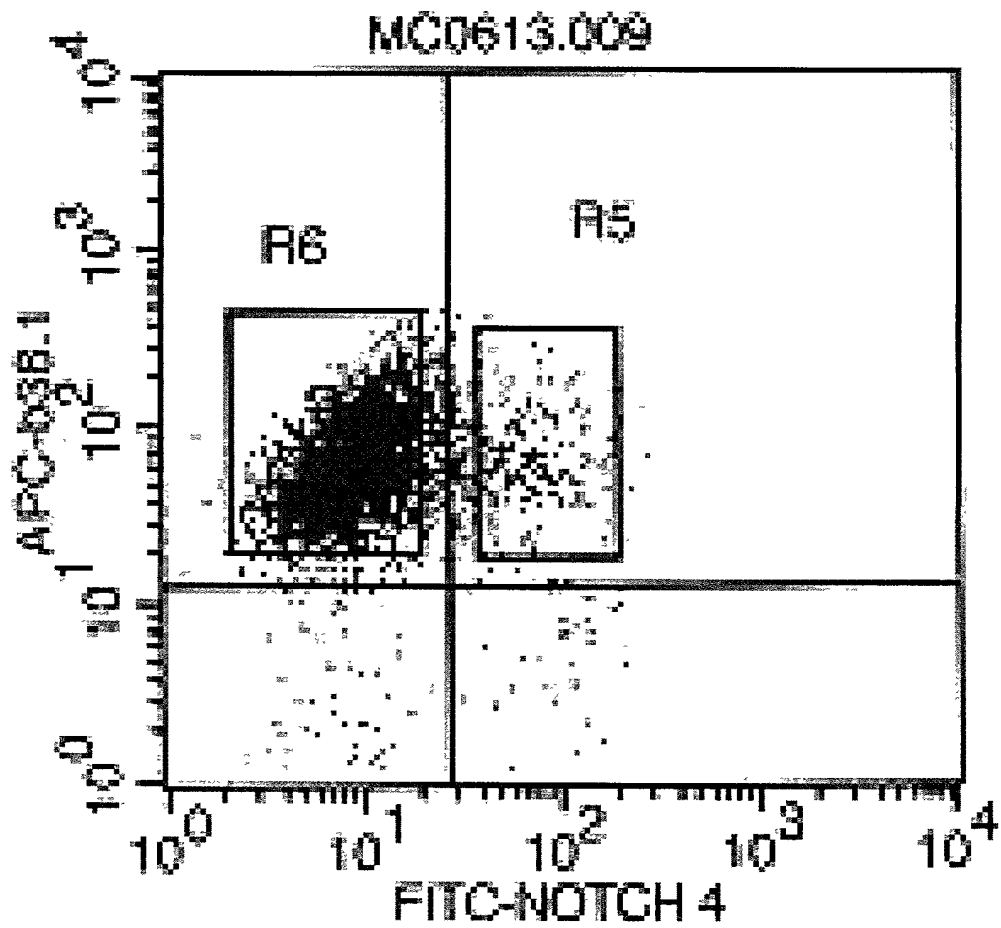


FIG. 5



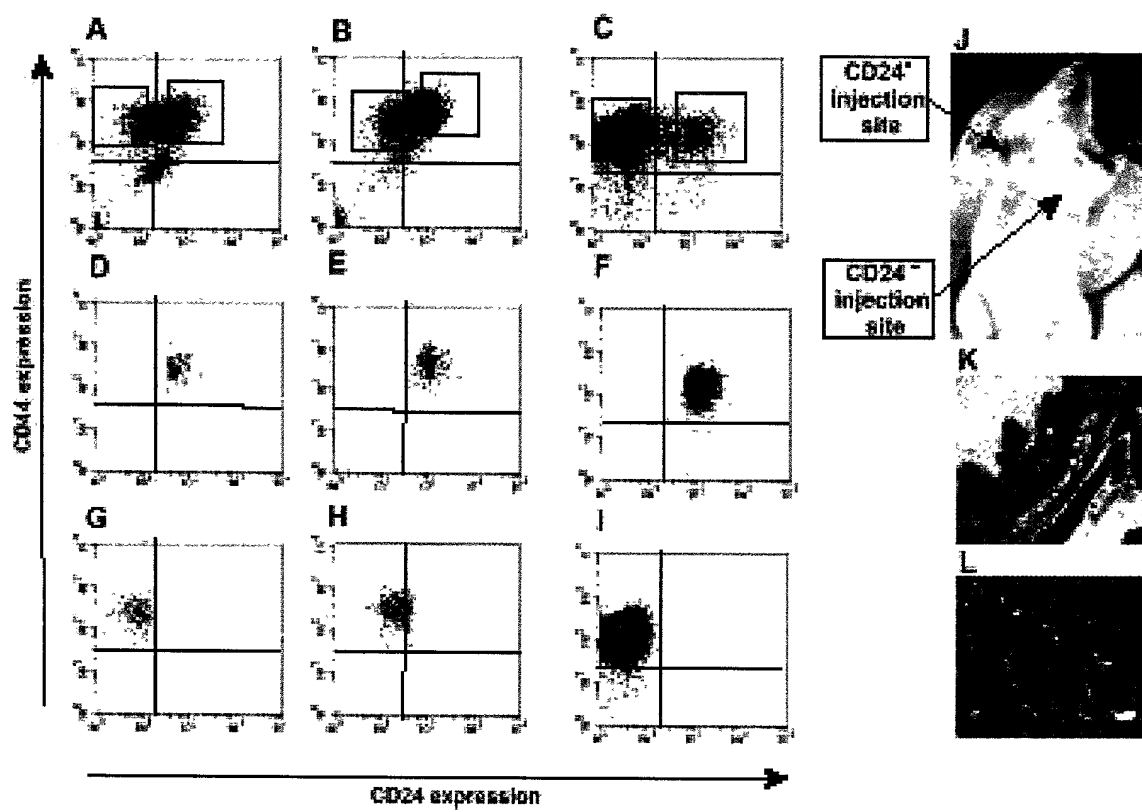


FIG. 7

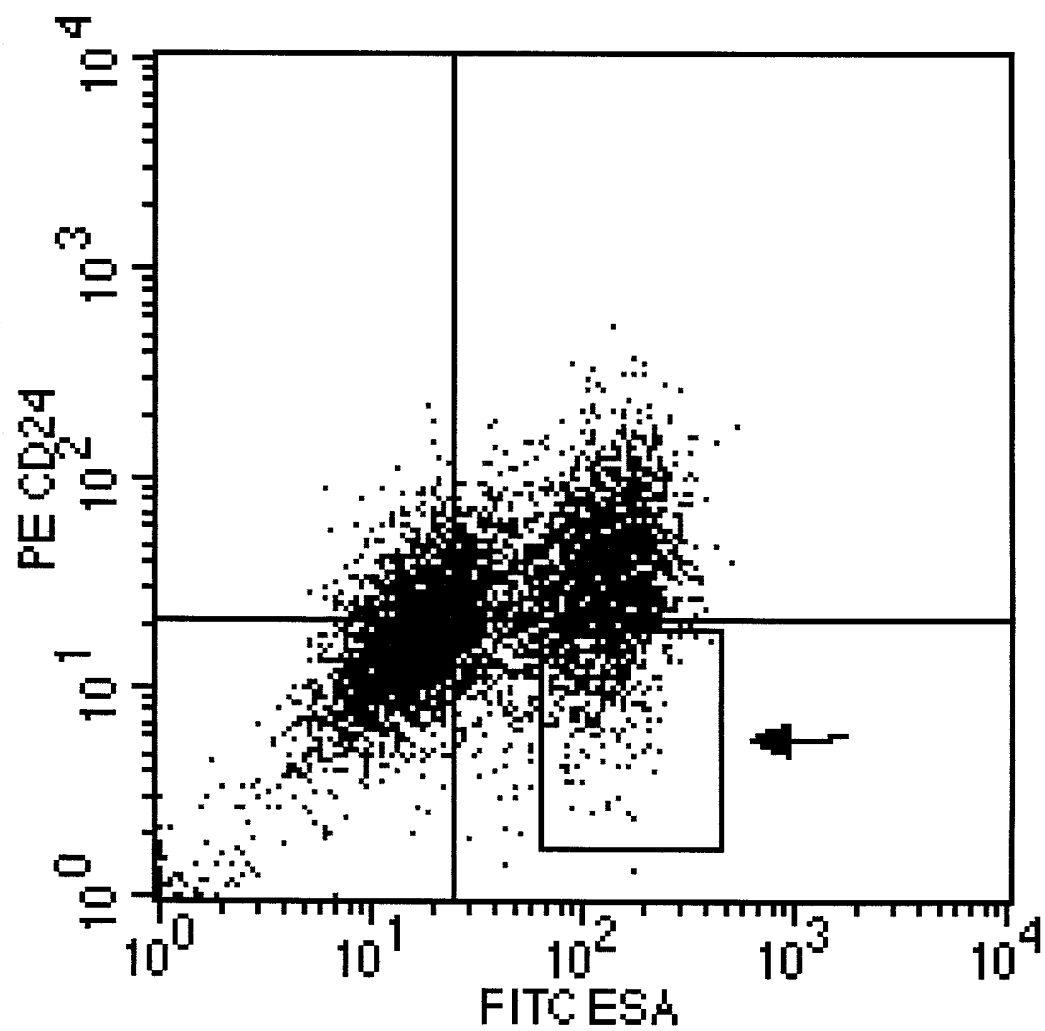


FIG. 8



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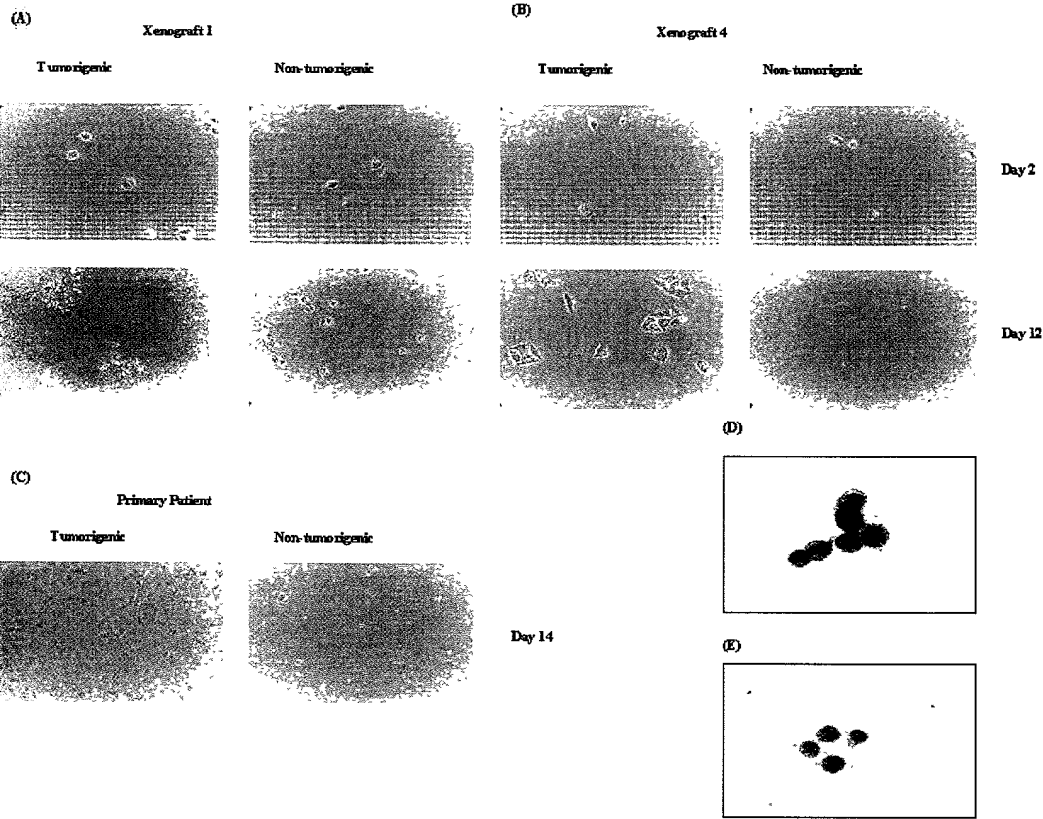


FIG. 9

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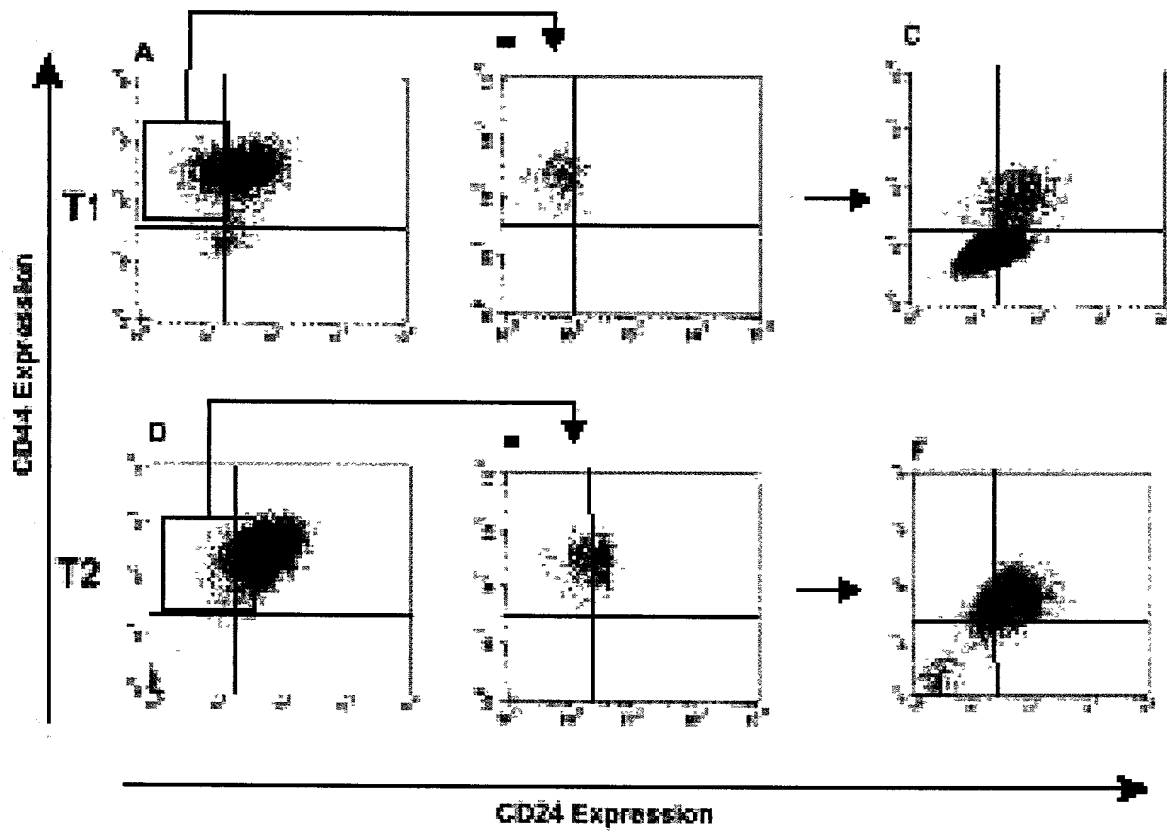


FIG. 10

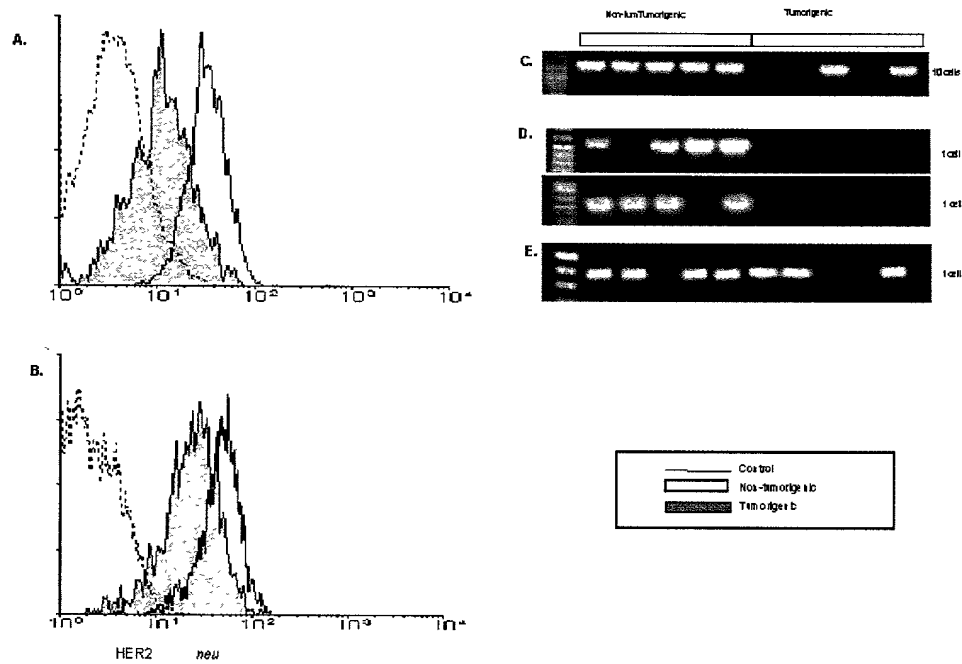


FIG. 11

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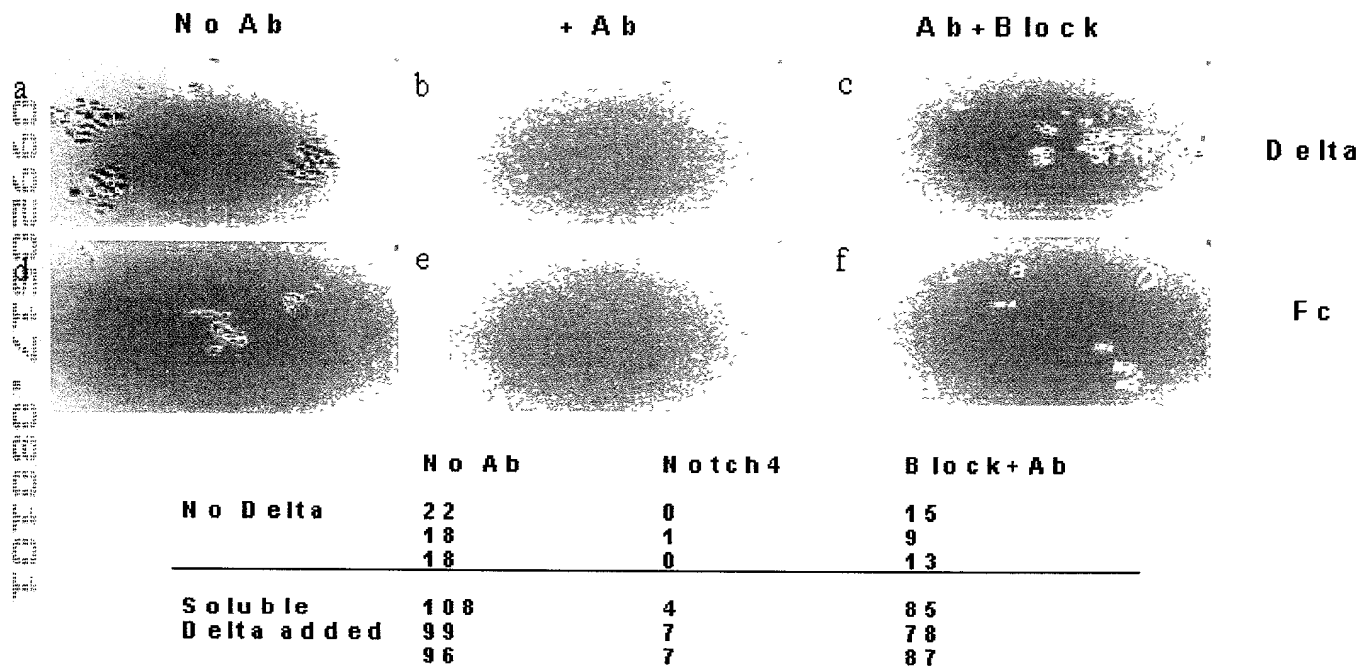


FIG. 12

**Use of B38.1 antibody to direct  
the infection of adenovirus to tumorigenic breast cancer cells**



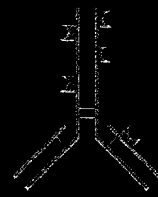
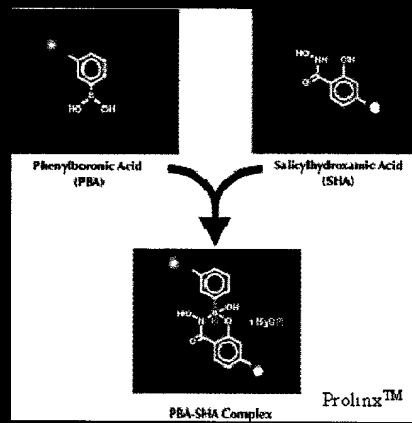
**All cells tumorigenic  
Targeting tumor**



**Breast cancer stem cells  
Targeting subpopulation of cells**

**FIG. 13**

## Cross-linking method to generate bi-specific antibodies



SHA2-Anti-Fiber

PDBA-Anti-B38.1



Bi-specific antibody

FIG. 14

## Targeting adenoviral infection to B38.1+ cells

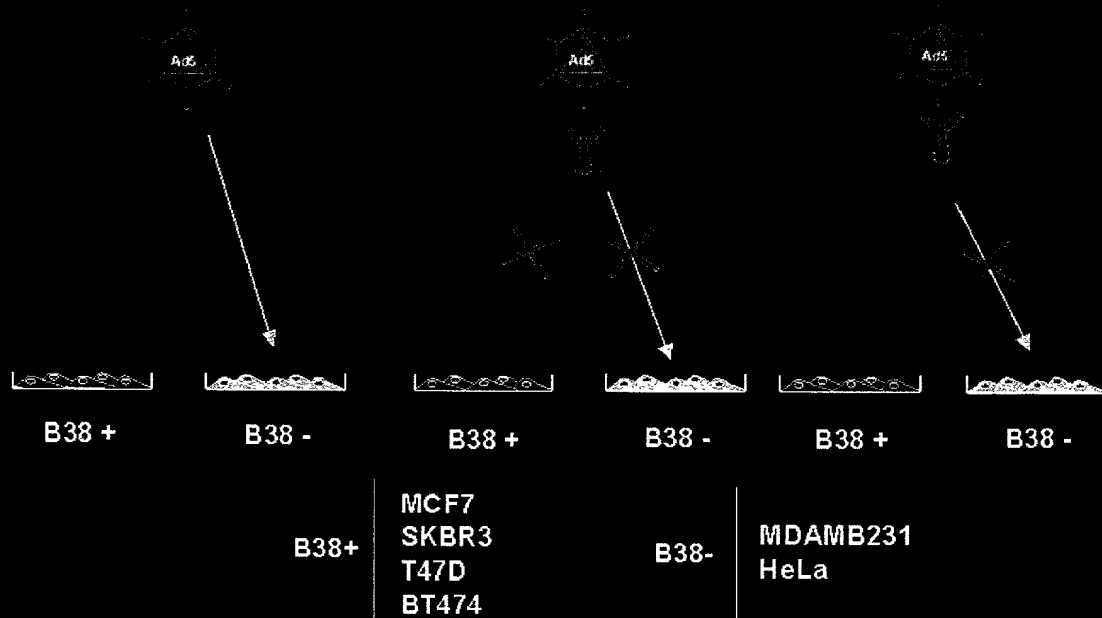


FIG. 15

### Targeting adenovirus infection to breast cancer cells

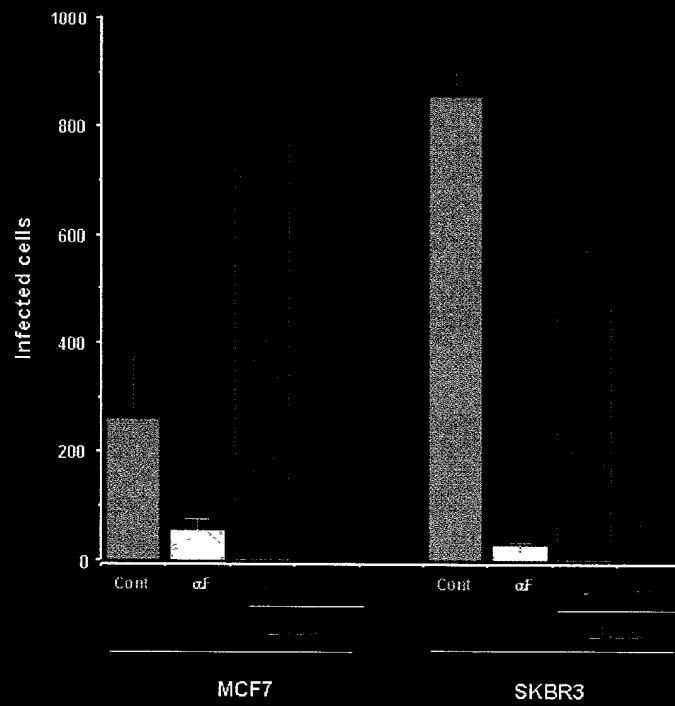


FIG. 16



## Targeting of Adenovirus to different human cell lines

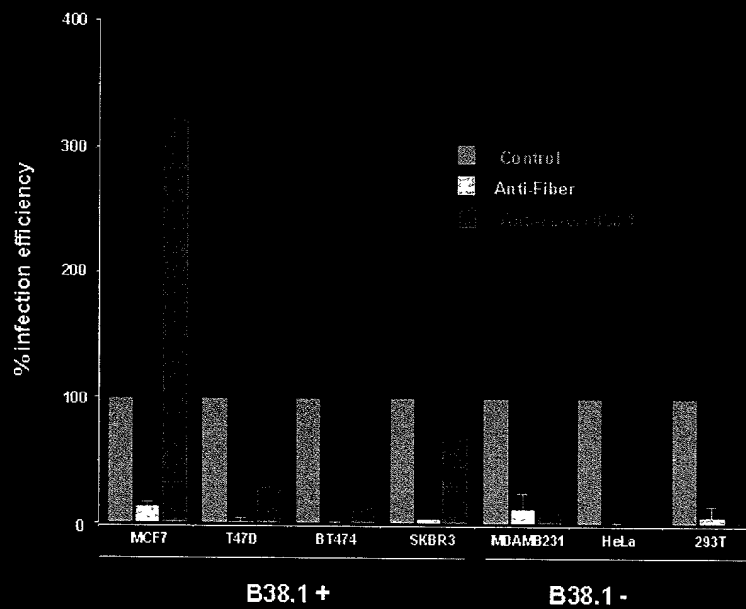


FIG. 17

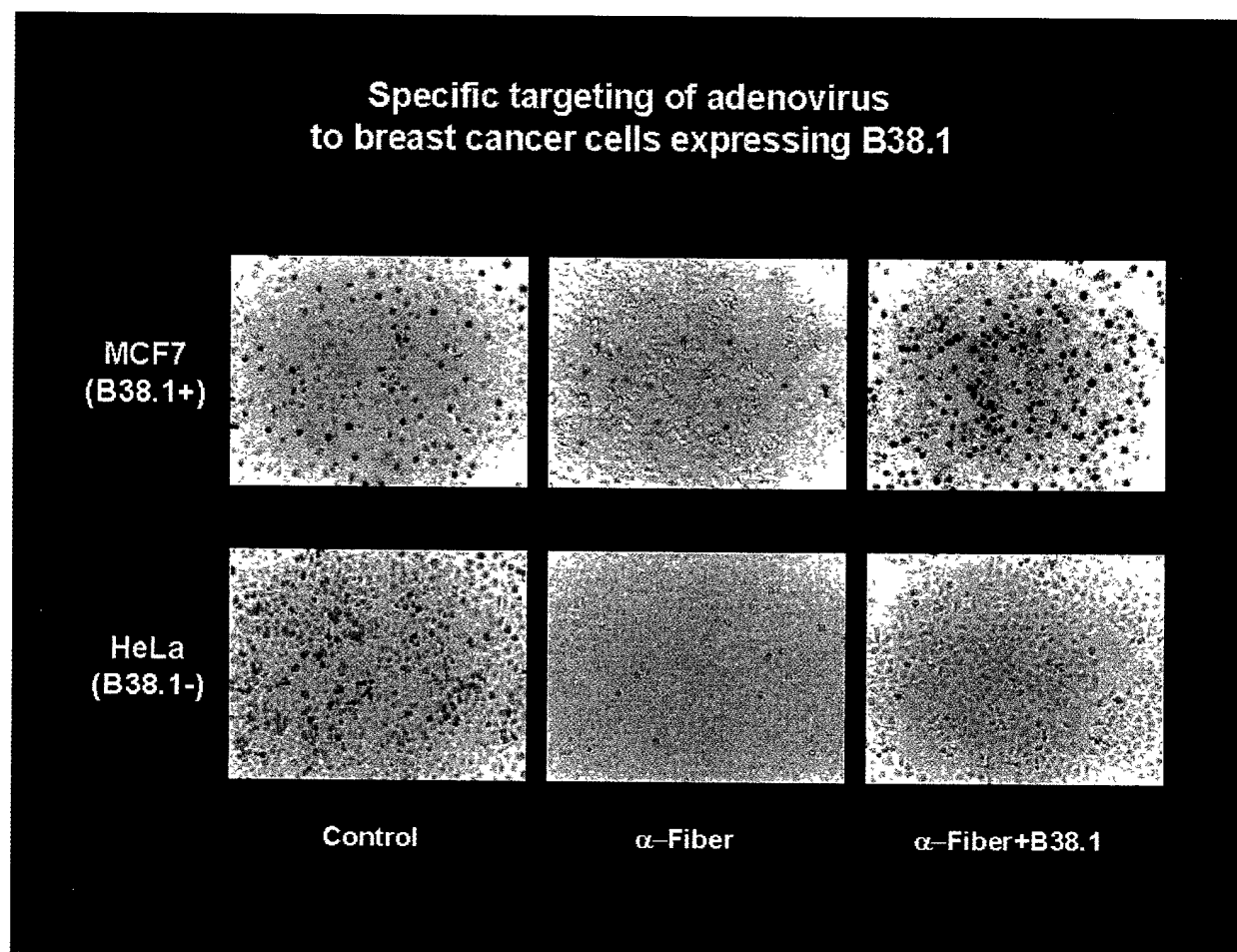


FIG. 18

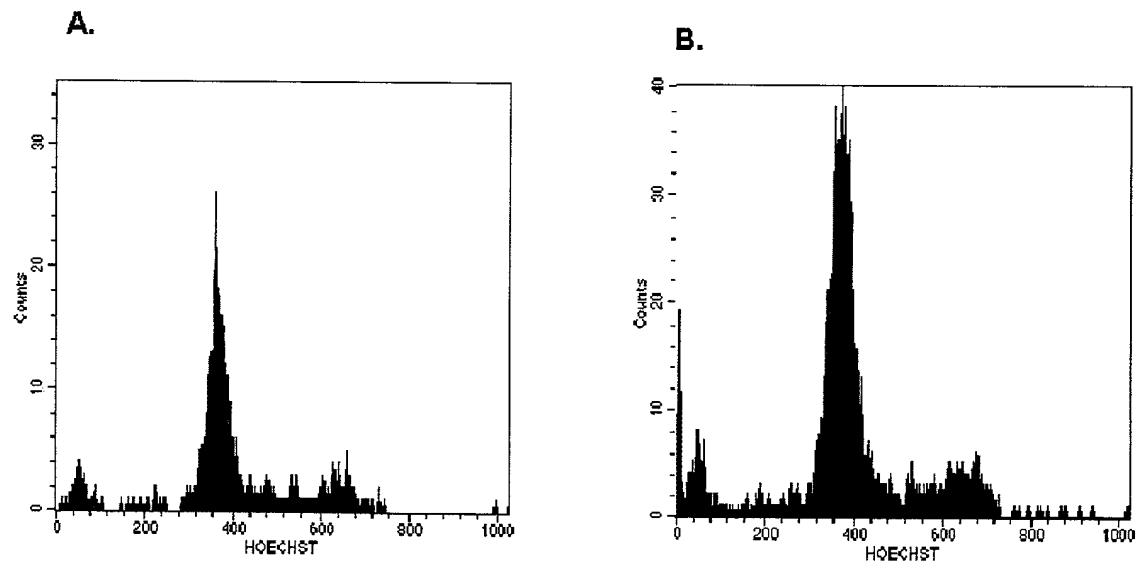


FIG. 19

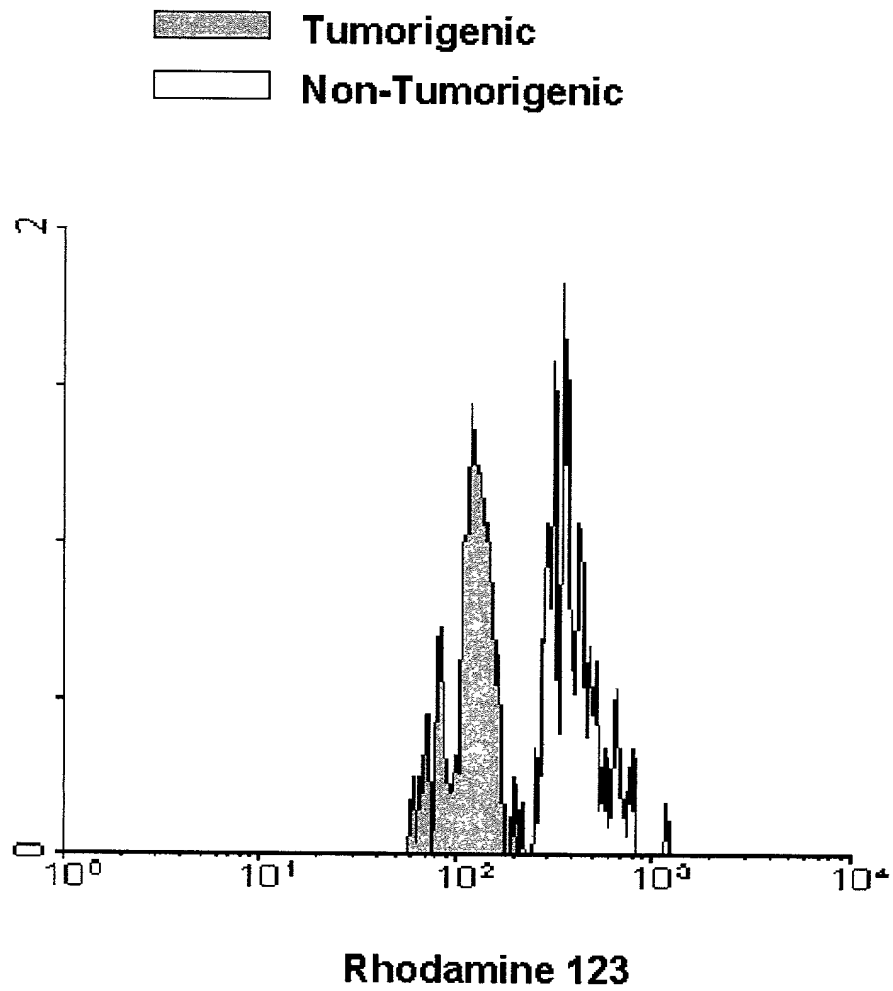


FIG. 20

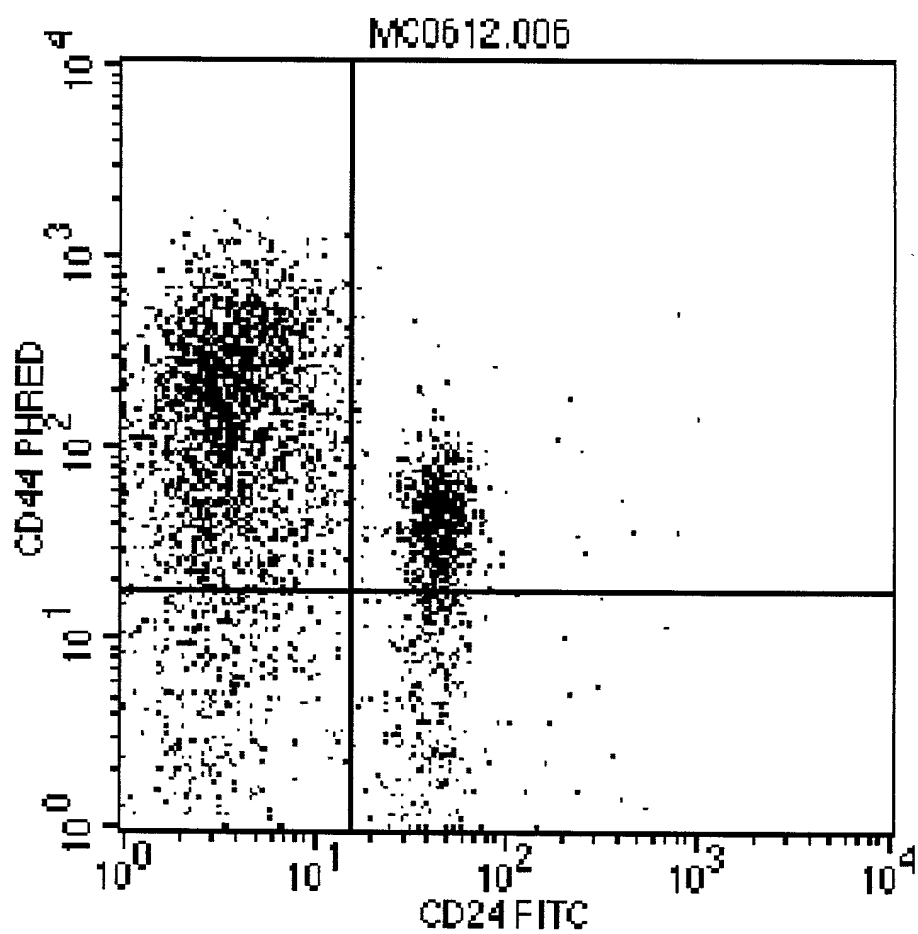


FIG. 21

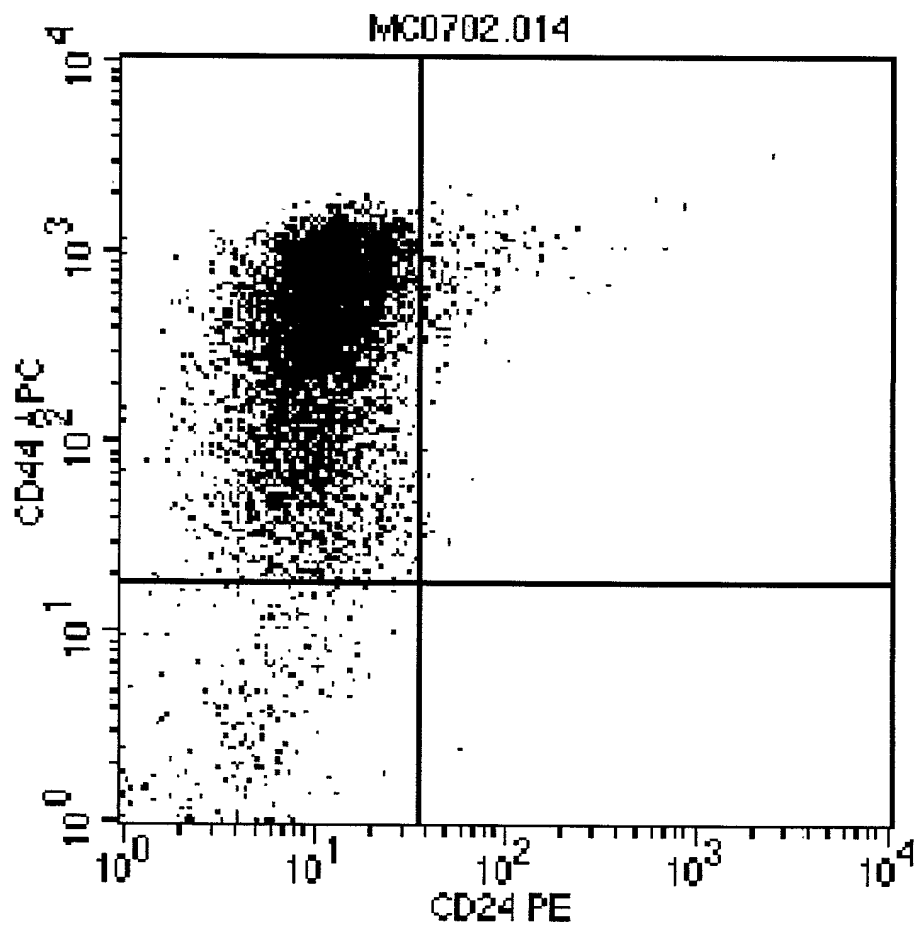


FIG. 22